

0300



#13

OIKE

## RAW SEQUENCE LISTING

DATE: 09/12/2002

PATENT APPLICATION: US/09/782,974C

TIME: 15:27:58

Input Set : A:\00411PHRM311.ST25.txt

Output Set: N:\CRF4\09122002\I782974C.raw

3 <110> APPLICANT: Vogeli, Gabriel  
4 Lind, Peter  
5 Wood, Linda S.  
6 Parodi, Luis A.  
8 <120> TITLE OF INVENTION: Novel G Protein Coupled Receptor  
10 <130> FILE REFERENCE: 411USPHRM311  
12 <140> CURRENT APPLICATION NUMBER: 09/782,974C  
C--> 13 <141> CURRENT FILING DATE: 2002-09-04  
15 <150> PRIOR APPLICATION NUMBER: 60/165,838  
16 <151> PRIOR FILING DATE: 1999-11-16  
18 <150> PRIOR APPLICATION NUMBER: 09/714,449  
19 <151> PRIOR FILING DATE: 2000-11-16  
21 <150> PRIOR APPLICATION NUMBER: 60/198,568  
22 <151> PRIOR FILING DATE: 2000-04-20  
24 <150> PRIOR APPLICATION NUMBER: 60/166,071  
25 <151> PRIOR FILING DATE: 1999-11-17  
27 <150> PRIOR APPLICATION NUMBER: 60/166,678  
28 <151> PRIOR FILING DATE: 1999-11-19  
30 <150> PRIOR APPLICATION NUMBER: 60/173,396  
31 <151> PRIOR FILING DATE: 1999-12-28  
33 <150> PRIOR APPLICATION NUMBER: 60/184,129  
34 <151> PRIOR FILING DATE: 2000-02-22  
36 <150> PRIOR APPLICATION NUMBER: 60/185,421  
37 <151> PRIOR FILING DATE: 2000-02-28  
39 <150> PRIOR APPLICATION NUMBER: 60/185,554  
40 <151> PRIOR FILING DATE: 2000-02-28  
42 <150> PRIOR APPLICATION NUMBER: 60/186,530  
43 <151> PRIOR FILING DATE: 2000-03-02  
45 <150> PRIOR APPLICATION NUMBER: 60/186,811  
46 <151> PRIOR FILING DATE: 2000-03-03  
48 <150> PRIOR APPLICATION NUMBER: 60/188,114  
49 <151> PRIOR FILING DATE: 2000-03-09  
51 <150> PRIOR APPLICATION NUMBER: 60/190,310  
52 <151> PRIOR FILING DATE: 2000-03-17  
54 <150> PRIOR APPLICATION NUMBER: 60/190,800  
55 <151> PRIOR FILING DATE: 2000-03-21  
57 <150> PRIOR APPLICATION NUMBER: 60/201,190  
58 <151> PRIOR FILING DATE: 2000-05-02  
60 <150> PRIOR APPLICATION NUMBER: 60/203,111  
61 <151> PRIOR FILING DATE: 2000-05-08  
63 <150> PRIOR APPLICATION NUMBER: 60/207,094  
64 <151> PRIOR FILING DATE: 2000-05-25  
66 <160> NUMBER OF SEQ ID NOS: 192

P.6  
ENTERED

## RAW SEQUENCE LISTING

DATE: 09/12/2002

PATENT APPLICATION: US/09/782,974C

TIME: 15:27:58

Input Set : A:\00411PHRM311.ST25.txt

Output Set: N:\CRF4\09122002\I782974C.raw

68 &lt;170&gt; SOFTWARE: PatentIn version 3.1

70 &lt;210&gt; SEQ ID NO: 1

71 &lt;211&gt; LENGTH: 1182

72 &lt;212&gt; TYPE: DNA

73 &lt;213&gt; ORGANISM: Homo sapiens

75 &lt;400&gt; SEQUENCE: 1

```

76 gtctgggggt gggggatgct gggacagggg tcaattgcct gaagcaagtg ctctcatccc      60
78 cctagctcct gctgatctag ttggggctcc agagtgggga ggagaaaggc actttgaaac      120
80 ttctctgccc ttaccgtctt agccatcaaa ctctgagctg gagatagtga cgatgtgaca      180
82 ggaactttcc ctgggcctct ctggggccaca attcctggcc gagagaaaga ggaggaatga      240
84 ggtgagcacc ttcttcactc ctagggccat gtggtagagc tgcagtcgca cctccttctg      300
86 ccaataggca tagatgagtg ggttgagcag ggagttgccc acgccgagca gccacaggta      360
88 ccgttccagc actaggtaga ggtgacactc ctggcaggcc acctgcacaa tgccagtgat      420
90 aaggaagggg gtccaggata gagcaaagct cccaatgaga acagacacag tacggagagc      480
92 tttgaagtcg ctgggagtcg gtggggatcg ataacctcca gccatggctc ctgcatgttc      540
94 catctttcga atctgctggc tgtgcatgga ggcaatcttg agcatgtcgc agtagaagaa      600
96 gacaaagagg agcatggctg ggaagaagcc aacgcaggag agggtcagca cgaagtgagg      660
98 gtgaaatata gcaaagaagc tgcactgccc ttgtaggca gtctgctgga acatggggat      720
100 tccgagtggg aggaagccaa tgaggtaaga cactaaccac agcccggcaa tgcaggcccc      780
102 ggccacgaac ccaactcatga tcttcaagta gcggaagggc tgcttgatgg caaggtagct      840
104 gtcaaagggt atcagcatga ccgtgaggac agaggcagct gcggaggaag tgacaaatgc      900
106 catccgcagg ctgcacaggg tcttctgtgt gggccgagaa gggctggaga gctggtctgt      960
108 gagtaggcca gagatggcca caccaatcaa ggtgtcagcc acagccagat tcaaggtgaa      1020
110 gcagagactg acaccatcat tcttgtggat caacagcagc acagccacag ccaactagtgt      1080
112 gttagtagca atgatgaggg aggccaggac agcaaggatc actccaaatg agaaagatga      1140
114 ttccatgtct cgaagtggca ggacttcaact taccagggca tg                        1182

```

117 &lt;210&gt; SEQ ID NO: 2

118 &lt;211&gt; LENGTH: 335

119 &lt;212&gt; TYPE: PRT

120 &lt;213&gt; ORGANISM: Homo sapiens

122 &lt;400&gt; SEQUENCE: 2

```

124 Met Glu Ser Ser Phe Ser Phe Gly Val Ile Leu Ala Val Leu Ala Ser
125 1          5          10          15
128 Leu Ile Ile Ala Thr Asn Thr Leu Val Ala Val Ala Val Leu Leu Leu
129          20          25          30
132 Ile His Lys Asn Asp Gly Val Ser Leu Cys Phe Thr Leu Asn Leu Ala
133          35          40          45
136 Val Ala Asp Thr Leu Ile Gly Val Ala Ile Ser Gly Leu Leu Thr Asp
137          50          55          60
140 Gln Leu Ser Ser Pro Ser Arg Pro Thr Gln Lys Thr Leu Cys Ser Leu
141 65          70          75          80
144 Arg Met Ala Phe Val Thr Ser Ser Ala Ala Ser Val Leu Thr Val
145          85          90          95
148 Met Leu Ile Thr Phe Asp Arg Tyr Leu Ala Ile Lys Gln Pro Phe Arg
149          100         105         110
152 Tyr Leu Lys Ile Met Ser Gly Phe Val Ala Gly Ala Cys Ile Ala Gly
153          115         120         125
156 Leu Trp Leu Val Ser Tyr Leu Ile Gly Phe Leu Pro Leu Gly Ile Pro
157          130         135         140

```

## RAW SEQUENCE LISTING

DATE: 09/12/2002

PATENT APPLICATION: US/09/782,974C

TIME: 15:27:58

Input Set : A:\00411PHRM311.ST25.txt

Output Set: N:\CRF4\09122002\I782974C.raw

```

160 Met Phe Gln Gln Thr Ala Tyr Lys Gly Gln Cys Ser Phe Phe Ala Val
161 145 150 155 160
164 Phe His Pro His Phe Val Leu Thr Leu Ser Cys Val Gly Phe Phe Pro
165 165 170 175
168 Ala Met Leu Leu Phe Val Phe Phe Tyr Cys Asp Met Leu Lys Ile Ala
169 180 185 190
172 Ser Met His Ser Gln Gln Ile Arg Lys Met Glu His Ala Gly Ala Met
173 195 200 205
176 Ala Gly Gly Tyr Arg Ser Pro Arg Thr Pro Ser Asp Phe Lys Ala Leu
177 210 215 220
180 Arg Thr Val Ser Val Leu Ile Gly Ser Phe Ala Leu Ser Trp Thr Pro
181 225 230 235 240
184 Phe Leu Ile Thr Gly Ile Val Gln Val Ala Cys Gln Glu Cys His Leu
185 245 250 255
188 Tyr Leu Val Leu Glu Arg Tyr Leu Trp Leu Leu Gly Val Gly Asn Ser
189 260 265 270
192 Leu Leu Asn Pro Leu Ile Tyr Ala Tyr Trp Gln Lys Glu Val Arg Leu
193 275 280 285
196 Gln Leu Tyr His Met Ala Leu Gly Val Lys Lys Val Leu Thr Ser Phe
197 290 295 300
200 Leu Leu Phe Leu Ser Ala Arg Asn Cys Gly Pro Glu Arg Pro Arg Glu
201 305 310 315 320
204 Ser Ser Cys His Ile Val Thr Ile Ser Ser Ser Glu Phe Asp Gly
205 325 330 335

```

208 &lt;210&gt; SEQ ID NO: 3

209 &lt;211&gt; LENGTH: 657

210 &lt;212&gt; TYPE: DNA

211 &lt;213&gt; ORGANISM: Homo sapiens

213 &lt;400&gt; SEQUENCE: 3

```

214 cagcgcgagc gccttcatgg tgacgggtgc catgcgctgg cagtgtctgc gtgccaccgc 60
216 gtgcacctgg agcgagggtga ggcagagcac cgccagcggc agcacgaagc ccacggcatg 120
218 gagcgtggcg gtgaaggctg cgaagcgcgg acgctcaggc tcggggcgga ggcgcagcga 180
220 acaggacgcg aaggcgctgc tgtagccaag ccacgagcag ccaagtgcag cgctgagaa 240
222 ggccagcgac tgtccccagg cacagcccag cagcaggccg gcatagcgcg gtgcaggcg 300
224 tccggcgtag cgcagtggga agcccactgc cagccactgg tctgcgctca gcgcgccac 360
226 gctcagcgcc gcgttgagcg ccaggaaggt gtccaggaag ccaatgactt ggcagcgcc 420
228 gggcgccgac ggtgtccgcc cgcgcatcac accgagcagc gtgaagggca tgtccagcg 480
230 cgccagcagc aggtggccca gagacagatt caccaggagg acgcctgagg ctgcagtgcg 540
232 gagctcagcg ctgtaggcgc aacaaagcag caccagtgcg ttggatagca gcgccacggc 600
234 cagtaccatc accaggagac ccgccagcag cgcctcgccg gggcccatgg cgctagc 657

```

237 &lt;210&gt; SEQ ID NO: 4

238 &lt;211&gt; LENGTH: 217

239 &lt;212&gt; TYPE: PRT

240 &lt;213&gt; ORGANISM: Homo sapiens

242 &lt;400&gt; SEQUENCE: 4

```

244 Ser Ala Met Gly Pro Gly Glu Ala Leu Leu Ala Gly Leu Leu Val Met
245 1 5 10 15
248 Val Leu Ala Val Ala Leu Leu Ser Asn Ala Leu Val Leu Leu Cys Cys
249 20 25 30

```

## RAW SEQUENCE LISTING

DATE: 09/12/2002

PATENT APPLICATION: US/09/782,974C

TIME: 15:27:58

Input Set : A:\00411PHRM311.ST25.txt

Output Set: N:\CRF4\09122002\I782974C.raw

```

252 Ala Tyr Ser Ala Glu Leu Arg Thr Arg Ala Ser Gly Val Leu Leu Val
253      35      40      45
256 Asn Leu Ser Leu Gly His Leu Leu Leu Ala Ala Leu Asp Met Pro Phe
257      50      55      60
260 Thr Leu Leu Gly Val Met Arg Gly Arg Thr Pro Ser Ala Pro Gly Ala
261 65      70      75      80
264 Cys Gln Val Ile Gly Phe Leu Asp Thr Phe Leu Ala Ser Asn Ala Ala
265      85      90      95
268 Leu Ser Val Ala Ala Leu Ser Ala Asp Gln Trp Leu Ala Val Gly Phe
269      100     105     110
272 Pro Leu Arg Tyr Ala Gly Arg Leu Arg Pro Arg Tyr Ala Gly Leu Leu
273      115     120     125
276 Leu Gly Cys Ala Trp Gly Gln Ser Leu Ala Phe Ser Gly Ala Ala Leu
277      130     135     140
280 Gly Cys Ser Trp Leu Gly Tyr Ser Ser Ala Phe Ala Ser Cys Ser Leu
281 145      150     155     160
284 Arg Leu Pro Pro Glu Pro Glu Arg Pro Arg Phe Ala Ala Phe Thr Ala
285      165     170     175
288 Thr Leu His Ala Val Gly Phe Val Leu Pro Leu Ala Val Leu Cys Leu
289      180     185     190
292 Thr Ser Leu Gln Val His Arg Val Ala Arg Arg His Cys Gln Arg Met
293      195     200     205
296 Asp Thr Val Thr Met Lys Ala Leu Ala
297      210     215

```

300 &lt;210&gt; SEQ ID NO: 5

301 &lt;211&gt; LENGTH: 222

302 &lt;212&gt; TYPE: DNA

303 &lt;213&gt; ORGANISM: Homo sapiens

305 &lt;400&gt; SEQUENCE: 5

```

306 tgtgcagggtg tgatctccat tcctttgtac atccctcaca cgctgttcga atgggatttt      60
308 ggaaaggaaa tctgtgtatt ttggctcact actgactatc tgttatgtac agcatctgta      120
310 tataacattg tcctcatcag ctatgatcga tacctgtcag tctcaaagtc tgtaagtcga      180
312 acacattaat ttatccccct tagaagatta tgtaaagtga ta                          222

```

315 &lt;210&gt; SEQ ID NO: 6

316 &lt;211&gt; LENGTH: 73

317 &lt;212&gt; TYPE: PRT

318 &lt;213&gt; ORGANISM: Homo sapiens

320 &lt;400&gt; SEQUENCE: 6

```

322 Cys Ala Gly Val Ile Ser Ile Pro Leu Tyr Ile Pro His Thr Leu Phe
323 1      5      10      15
326 Glu Trp Asp Phe Gly Lys Glu Ile Cys Val Phe Trp Leu Thr Thr Asp
327      20      25      30
330 Tyr Leu Leu Cys Thr Ala Ser Val Tyr Asn Ile Val Leu Ile Ser Tyr
331      35      40      45
334 Asp Arg Tyr Leu Ser Val Ser Asn Ala Val Ser Arg Thr His Phe Ile
335      50      55      60
338 Pro Leu Arg Arg Leu Cys Lys Cys Ile
339 65      70
342 <210> SEQ ID NO: 7

```

## RAW SEQUENCE LISTING

DATE: 09/12/2002

PATENT APPLICATION: US/09/782,974C

TIME: 15:27:58

Input Set : A:\00411PHRM311.ST25.txt

Output Set: N:\CRF4\09122002\I782974C.raw

```

343 <211> LENGTH: 507
344 <212> TYPE: DNA
345 <213> ORGANISM: Homo sapiens
347 <400> SEQUENCE: 7
348 gacgtcgaag caggtgatga tgcccagggc gtgcaccggg taggtgagat cgggtgcgcgc      60
350 cagcggggac agggcggtca ggagcagcag ccaggtccct gcacacgcgg ccaccgcgta      120
352 acgacggcgg cgccagcgct tggagctgag cgggtacagg atccccagga agcgtccac      180
354 gctgatacag gtcattggtga ggatgctgga atacatgttt gcgtaaaagg ccacggtcac      240
356 cacgttgcaa agcagcacc cgaataccca gtggtggcgg ttgcaatggt agtagatttg      300
358 gaaaggcaac acgctggcca gcatcaggtc cgtgacgctc aggttgatca tgaagatgac      360
360 cgacggggat ctggggcccca tgcgcgggca cagcaccac agagagaaga ggttgcccg      420
362 gatgctgacc gccgccacca gcgagtacac cacgggcagg gccaccgcga tcgccgggtt      480
364 ccgcagcatc tgcagcgctc cgttgctc                                     507
367 <210> SEQ ID NO: 8
368 <211> LENGTH: 169
369 <212> TYPE: PRT
370 <213> ORGANISM: Homo sapiens
372 <400> SEQUENCE: 8
374 Asp Asn Ala Thr Leu Gln Met Leu Arg Asn Pro Ala Ile Ala Val Ala
375 1 5 10 15
378 Leu Pro Val Val Tyr Ser Leu Val Ala Ala Val Ser Ile Pro Gly Asn
379 20 25 30
382 Leu Phe Ser Leu Trp Val Leu Cys Arg Arg Met Gly Pro Arg Ser Pro
383 35 40 45
386 Ser Val Ile Phe Met Ile Asn Leu Ser Val Thr Asp Leu Met Leu Ala
387 50 55 60
390 Ser Val Leu Pro Phe Gln Ile Tyr Tyr His Cys Asn Arg His His Trp
391 65 70 75 80
394 Val Phe Gly Val Leu Cys Asn Leu Val Val Thr Val Ala Phe Tyr Ala
395 85 90 95
398 Asn Met Tyr Ser Ser Ile Leu Thr Met Thr Cys Ile Ser Val Glu Arg
399 100 105 110
402 Phe Leu Gly Ile Leu Tyr Pro Leu Ser Ser Lys Arg Trp Arg Arg Arg
403 115 120 125
406 Arg Tyr Ala Val Ala Ala Cys Ala Gly Thr Trp Leu Leu Leu Leu Thr
407 130 135 140
410 Ala Leu Ser Pro Leu Ala Arg Thr Asp Leu Thr Tyr Pro Val His Ala
411 145 150 155 160
414 Leu Gly Ile Ile Thr Cys Phe Asp Val
415 165
418 <210> SEQ ID NO: 9
419 <211> LENGTH: 270
420 <212> TYPE: DNA
421 <213> ORGANISM: Homo sapiens
423 <400> SEQUENCE: 9
424 cccatgttcc tgctcctggg cagcctcacg ttgtcggatc tgctggcagg gcgccctac      60
426 gccgccaaaca tcctactgtc gggggccgctc acgctgaaac tgtccccgcg gctctggttc      120
428 gcacggggagg gaggcgtctt cgtggcactc actgcgtccg tgctgagcct cctgggcac      180
430 gcgctgggagc gcagcctcac catggcgcgcg agggggcccc cgcccgtctc cagtcggggg      240

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/782,974C

DATE: 09/12/2002  
TIME: 15:27:59

Input Set : A:\00411PHRM311.ST25.txt  
Output Set: N:\CRF4\09122002\I782974C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; N Pos. 431,432,433,434,435,436,437,438,439,440,441,442,443,444,445  
Seq#:15; N Pos. 446,447,448,449,450,451,452,453,454,455,456,457,458,459,460  
Seq#:15; N Pos. 461,790,791,792,793,794,795,796,797,798,799,800,801,802,803  
Seq#:15; N Pos. 804,805,806,807,808,809,810,811,812,813,814,815,816,817,818  
Seq#:16; Xaa Pos. 26,27,28,29,30,31,32,33,34,35,144,145,146,147,148,149,150  
Seq#:16; Xaa Pos. 151,152,153,154  
Seq#:27; N Pos. 81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99  
Seq#:27; N Pos. 100,101,102,103,104,105,106  
Seq#:28; Xaa Pos. 104,105,106,107,108,109,110,111,112,113  
Seq#:58; Xaa Pos. 266